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PHENIX WEEKLY PLANNING



9/22/2011 Don Lynch

This Week

- · RPC1 North Installation continues (All octants in)
- Begin CM west side hanging platform installation
- · Continue RPC1 cable installation prep
- Continue building RPC1 racks
- MuTr station 2 termination/dry air distribution header modification/re-installation
 on station 1 side
- · Remove station 2 access from station 1 side
- · Reconfigure scaffolding for MuTr sta 1 N re-installation Done
- Begin re-installation of MuTr station 1
- Begin design Sta 2 (from station 3 side) & station 3 North access (lower $\frac{1}{2}$ only)
- · Continue assembly & QA of RPC15 octants at RPC factory
- VTX repairs/upgrades/reassembly continues
- FVTX assembly continues
- Design BP protection for south station 1
- Continue design and procurement for RPC3 shielding, Hodoscope, AH Crane upgrade
 & repairs, and R134A shed

Next Week

- · RPC1 North Installation continues (All octants in)
- · Continue CM west side hanging platform installation
- · RPC1 cable installation begins
- · Finish building RPC1 racks
- RPC1 survey
- Complete MuTr station 2 termination/dry air distribution header modification/reinstallation on station 1 side/troubleshooting
- · Remove station 2 access from station 1 side
- Reconfigure scaffolding for MuTr sta 1 N re-installation (upper)
- · Complete re-installation of MuTr station 1
- · Re-install north bridge section
- Continue design Sta 2 (from station 3 side) & station 3 North access (lower $\frac{1}{2}$ only)
- · Continue assembly & QA of RPC15 octants at RPC factory
- VTX repairs/upgrades/reassembly continues
- FVTX assembly continues
- · Complete Design BP protection for south station 1
- Continue design and procurement for RPC3 shielding, Hodoscope, AH Crane upgrade
 & repairs, and R134A shed

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PH*EN	IIX	General Tasks	2011 Shutdown
T	•	Remaining Work Permits needed: End of Shutdown WP	10/1
E	•	South BP protection	10/24
L L	•	Reinstall BBC North	10/10
N	•	MPC N troubleshooting	10/10
POH2HOM L	•	CM alignment stops	11/14
č	•	Reinstall BBC South	11/14
A	•	MPC S troubleshooting	11/21
L	•	Upgrade AH crane	10/15-11/30
S	•	DC/PC1 East/West troubleshooting as required	10/3-11/15
u	•	Undefined detector subsystem maintenance and repairs	7/25-11/7
P	•	RPC3 Shielding	11/21
PPOR	•	RPC Hodoscope	11/21
0	•	Prep for EC roll in, reinstall MMS lampshade	11/28-12/2
K T	•	Roll in EC	12/5
	•	Prep IR for run	12/5-12/9
2	•	VTX, FVTX and RPC1 Services and QA tests	9/16-11/30
0		(including 4 new racks)	
i	•	BP Survey	10/17-12/12
	•	EC prep & roll-in, IR run prep, Pink/Blue/White sheets	12/5-12/23
	•	New and upgraded full detector commissioning	9/15-12/31
		Run 12 cooldown	1/1/2012

9/22/2011

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VTX/FVTX Tasks

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2011

PH ENIX

· VTX pixel/strip pixel repairs		9/26
· VTX re-assembly	10/3	
· VTX QA tests		10/10
· VTX (w/o FVTX) survey		10/24
· FVTX procurement & Assembly	10/10	
· FVTX QA tests		10/17
· VTX+FVTX final installation to start		10/21
 Final VTX+FVTX Integration & Survey in Chem Lab 		10/24
· VTX+FVTX move to 1008		10/31
· VTX/FVTX Installation at 1008		
· Build 2 FVTX racks		7/1-10/31
 Install VTX/FTX, Re-connect VTX services, 		10/31-11/21
Install FVTX services, survey and QA tests		
 VTX/FVTX Commissioning & Contingency 		11/11-12/31
 Chiller leak/contamination improvements 		10/1

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VTX Status

Stripixel:

- Miljko finished modifications last week
- East side readout testing complete. All ladders work at high speed, random triggers in lab
- West side readout testing in progress (3-4 days)

Pixels

- Leak testing of east side: 22-23 Sept 2011
- West side ready for cleaning: 22-27 Sept 2011
- 33 SPIROs being re-reworked, Delivery by 30-Sept
- New ladder scheduled for Sept 29 delivery to RIKEN, Oct-4 delivery to BNL

9/2/-9/23

TECHNICAL NUPPORT

MuTr North Station 1 work

•	Clean/install new parts and upgrades (MuTr (3 weeks,	Done
	At RPC Factory)	
•	Re-install chambers and FEE plates (1 week)	9/26-9/30
•	Re-install north section of bridge	9/30
•	Re-cable, re-hose and test (3 weeks)	10/3-10/21
•	Move CM north	10/21

MuTr Station 2 N (from sta 1 side) terminators and Dry air header mod

Station 2 Maintenance/upgrade through access opened by station 1 removal

MuTr North & South Station 2 & 3 Re-cap clamps

(No internal work platforms to upper octants)

•	Install new capacitor clamps and terminators in lower octants	(In Progress) 7/25-12/31
	De-install MMS east ventical lampshade	11/15



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RPC Tasks

•	Assembly at QA tests at RPC Factory	10/17
•	Build 1 new rack, upgrade existing RPC1 prototype rack	7/25-9/30
•	Install north RPC1 (including both racks & services)	9/6-10/7
•	HV Tests, gas system calibration	9/23-10/21
•	Move Station 1 work platforms to south station 1	10/28
•	Install south RPC1	10/31-11/23
•	Remove all scaffolding and hanging platforms	12/5
•	RPC1 north and south commissioning	9/6-12/5
•	RPC3 HV Distribution modifications, gas distribution	
	modifications, PS calibration HV and services testing	



Electronics Group Tasks

2011 Shutdown

BOHNTOAL SUPPORT

• RPC1

• HV Cables

Signal cablesLV cables

Racks

Assembly

Install on bridge

RPC3 additional HV boxes

FVTX

Bias cables

LV cables

Fiber

• Mapper boards

CMT3 and CMT4 FVTX racks

Assembly

Install on bridge

VTX Modify thermocouple connections

PC Board Designs

PbSc teminator board production

New LV Dist front panels

• GL1 6X1 Multiplexer assemblies

New MPC junction board

Dual SVX board for E. Kistenev

West carriage ADAM system performance upgrade

LeCroy HV control retrofit testing

Design/Install FVTX Interlock system.

Ready for routing Ready for installation Ready for innstallation

9/30 10/7

Ass'y in progress

pigtails due 9/26, extensions PO placed PO placed term. of ROC LV cables in-house PO placed, Control & trunk fibers and patch bays ready PO placed

10/31 11/4

Procurement Done, installation 11/21

sent for fabrication sent for fabrication

final checking this week

waiting for specs waiting for specs

2 new Modbus servers arrived, bench test

& install panel upgrade in WCB for single ADAM

control

Still Waiting for doc. from Debrecen Inst

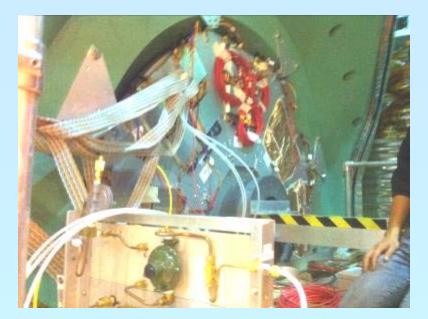
Design Done ready for installation

TECHNICAL NUPPORT

Miscellaneous Gas & Cooling System Tasks

•	Redo bypass line on VTX/FVTX spare chiller to remove kink	7/1-12/31
•	Move RPC R134A tanks nearer to GMH, install cover, insulated lines	7/1-12/31
•	Replace MuTr flowmeters (north and south)	7/1-12/31
•	RPC $\frac{1}{4}$ " copper line from RPC rack to CM	7/1-12/31
•	Relocate RPC3 South gas rack from tunnel mezzanine to tunnel floor	Done



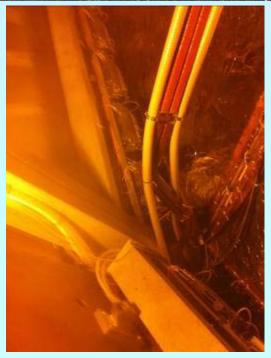




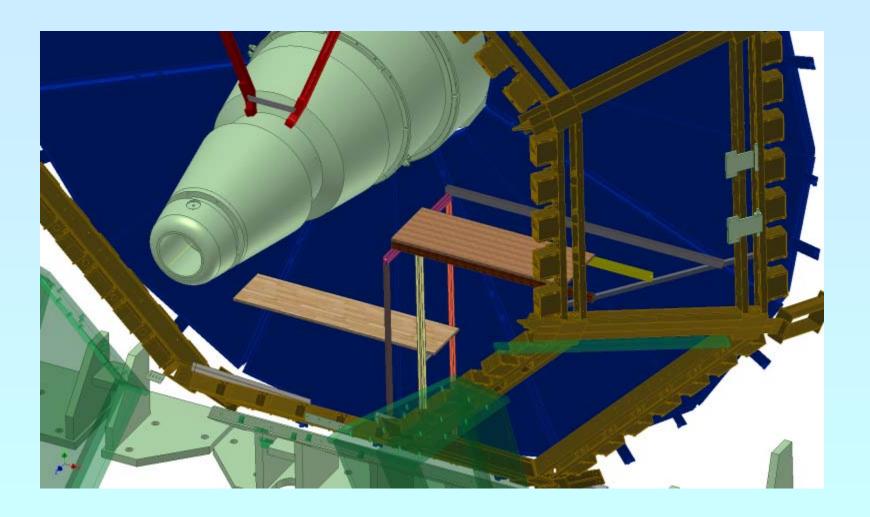
















RPC Hodoscope



Close to RPC3 electronics rack Less Beam background region



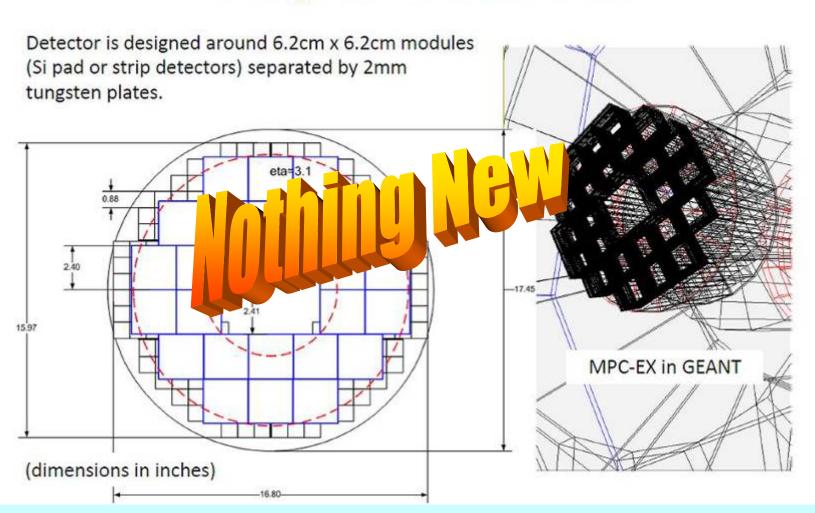
Location 1 or 2 would be good position

Need shed for R134A bottles close to GMH. No heating in shed (except heating blankets), lines to be insulated. Last year heating blankets kept gas warm but long length of pipe allowed gas to liquify on coldest days.

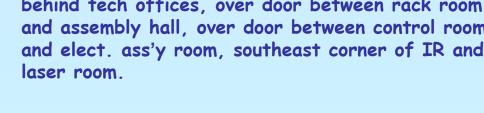


Possible location for shed 8' deep with $10' \times 8'$ doors, and with bottom and top openings.. should satisfy ODH issues ~\$2K.

Design of the MPC-EX



Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall, over door between control room and elect. ass'y room, southeast corner of IR and laser room.





Flooding in AH/ Driveway heaving

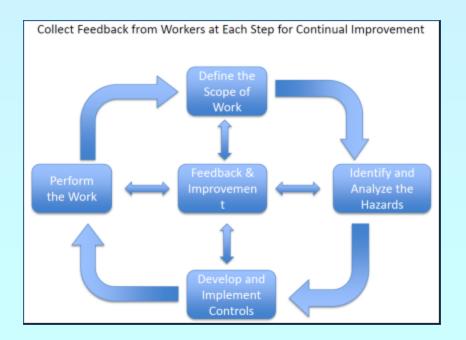


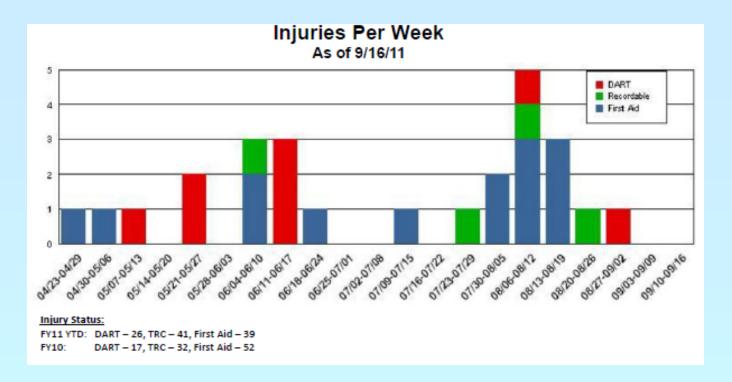
Temperature in utility hall (where new air compressor is installed) is exceedingly high (transformer cases as high as 135 F)

Work Planning

For the most effective work planning, supervisors should use the following "hierarchy of controls" in order of priority:

- Substitution
- Engineering
- Administrative
- PPE





Recent Injuries: Subcontractor pinched a finger between machinery and material. Taken to hospital, non reportable

Incidents:

Transmission oil spill 1 gallon unknown source - under investigation Compressor line failure oil spill 100-180 gallons - under investigation Hydraulic oil spill during hammer test - 1 cup cleaned and disposed Lumber fall roof to ground NSLS II - no injuries New air compressor fell off fork lift. Total loss Refrigerator dropped 2 steps F&O - no injuries, minor damage



Where To Find PHENIX Engineering Info

Summer ends and Fall begins tomorrow morning at 5:04 AM





Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

